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UTCS ComputerNews

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Articles

NetNorth — Electronic Mail Demonstrations 1
Datapac Services 1
Research Year-End 1
Enhancements to SAS/GRAPH in Version 5 2
DATATEXT 3
Pseudotypesetting Font Improvements 3
Enhancements to the Micro Laser Printing Service 4
SCRIPT Change 4
New MAXSTOR Command on CMS 4
Toronto Turing Version 2.0 Available Now 5
Language Processor Upgrade 5
Mainframe File Transfer Facility 6

Departments

UTCS Noncredit Short Courses 6
Personnel Changes 7
Change Committee 7
Documents at UTCS 8
Recent Acquisitions in the Computer Library 10
New Journals Received in the Computer Library 11
Technical Reports Recently Received in the Computer Library 11
Consulting and Enquiries 13
UTCS Directory 13
Committees on Computing 13
UTCS Terminal and Advising Sites 14
UTCS Services 15

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(NetNorth/BITNET/EARN)

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NetNorth — Electronic Mail Demonstrations

UTCS has had many enquiries from users interested in the NetNorth/BITNET/EARN communications network. This network, accessible from CMS, reliably connects over a thousand universities and research institutes in Europe, Asia, and North America.

Sending mail, data, documents or other files on NetNorth is a very simple task that anyone can learn quickly. Sending mail in this way is also very inexpensive. For example, an account used only for sending mail to Europe and Asia (not for programming or text formatting) would cost between $200 and $300 per year — about the same as your department's commercial telephone line, without the long distance charges!

Three demonstrations of how to use NetNorth will be held at 9:00, 10:00 and 12:00 noon on Thursday, February 13 in the UTCS Education Facility, Room 221 in McLennan Physical Laboratories.

The demonstration, lasting just under an hour, will include how to send mail and files to another institution and how to talk directly to someone on the network.

Because classroom space is limited, please reserve a place by calling the Education Coordinator at 978-4565.

Paul Shindman

Datapac Services

For the past few years, UTCS has provided access to our computing services via the Telecom Canada Datapac packet switching network. There are a number of ways to connect to Datapac; we currently provide the type which is known as the Interactive Host Interface service. Other methods, such as X.25, have more capability but are also more expensive.

As most of our customers probably know, UTCS-provided facilities must now be self-financing. Our current Datapac service does not pay for itself. We would like to provide better Datapac access, if demand warrants it.

Please contact me at 978-4967 if you think that better Datapac services could be helpful to you.

Norman Housley

Research Year-End

The fiscal year-end for most research grants, especially those issued by NSERC and MRC (3-500-NNN-NN to 3-699-NNN-NN), is March 31. However, in order to complete accounting to the granting agencies by that date, the final date for billing computing services to an Encumbrance Memo will be Wednesday, March 26 (for purchases to be paid by debit memo, the deadline is Monday, March 24).

To ensure that all charges for services to come off the grant are billed prior to the cancellation of the Encumbrance Memo, researchers should arrange for service completion or purchase of supplies as early in March as possible. This includes making sure that jobs are cleared from the system HOLD queues. If jobs in the queues are not printed or purged until after March 26,

continued...

Research Year-End continued

the researcher will continue to be liable for the charges.

When an Encumbrance Memo is cancelled and there is no other source of funding such as a departmental subsidy, the entire account's allocation is removed, the account is locked, and service is suspended. A new Encumbrance Memo should be received by UTCS **no later than March 21** if service is not to be interrupted.

An Encumbrance Memo based on Ledger 1 funds is not affected by this deadline.

For additional information on accounting procedures, please obtain a copy of the UTCS GUIDE TO PRODUCTS AND SERVICES: Accounting, available from UTCS Accounting Services, Room 337, McLennan Labs.

Copies of the Encumbrance Memo form are available from the University Purchasing Department.

Marg Doherty

Enhancements to SAS/GRAPH in Version 5

Recently Version 5 of SAS was introduced on MVS and CMS. Along with many other enhancements come improvements to the graphics capabilities of SAS/GRAPH. This product now has the tools to give you control over most aspects of your graphical output. It is still possible to create one graph, chart, or slide in a standard format with a few lines of code. Now, with Version 5 improvements you can also set the physical size and the position of a plot on the page. You can even cut and paste a number of plots on one page. Control of details of graphs, charts, and slides is available with the ANNOTATE facility. You can add text at any position on a standard graph and draw additional lines and shapes wherever you want. If necessary, you can use ANNOTATE by itself to specify all components of a graph, in the manner of CALCOMP subroutines within a FORTRAN program.

In Version 5, graphics catalogues and extensions to PROC GREPLAY provide the means to save and to call up individual graphs, by name. Output for a graphical device is assembled by placing graphs from a catalogue into windows in a template. A number of standard templates are provided, but you can create your own with PROC GREPLAY. Headings can also be included on each page of output. The graphs stored in a catalogue are produced using graphics procedures, such as PROC GPLOT, in the familiar way. The option remains open to send them directly to an output device without invoking PROC GREPLAY.

Version 5 of SAS also offers improvements in interactive graphics, which will soon be available here at UTCS. Then, CMS and TSO users will be able to preview their graphs on screen before committing them to hardcopy. A graphics terminal can be used to display your graphs, as can a personal computer with the proper software and hardware. A future article will deal with details of interactive graphics once it has been installed and tested here at UTCS.

For more information, contact Advising Services at 978-HELP or the SNAC Group at 978-STAT.

Terry Jones
Bill Fehlner

DATATEXT

DATATEXT is a statistics package whose very low usage does not justify continuing to pay the annual license fee. It will be removed from the UTCS MVS system on March 7, 1986. There have only been four occasional users of this package over the past eight months. All known users of the package have been contacted to arrange alternate methods for computing previously done with DATATEXT.

Any other DATATEXT users should contact Advising Services at 978-HELP.

Bill Fehlner

Pseudotypesetting Font Improvements

Major changes have been made to the PressRoman font used for pseudotypesetting with SCRIBE on the 8700 laser printer. These changes give users a larger selection of punctuation characters and true italics in the regular and footnote fonts. In addition, variable names in mathematical expressions now appear in italics.

To provide the additional punctuation characters in the font used for major headings and chapter titles, it was necessary to decrease the size of the font slightly. The addition of italics required a slight increase in the size of the font used for footnotes. The latter change has the added benefit of improving the readability of footnotes.

SCRIBE users are not required to change their input files in order to take advantage of these font improvements. The new italics can be accessed using the @i command, as usual.

Samples of the new fonts are available by printing the PressRoman section of the updated document ‘‘Sample Fonts for Pseudotypesetting.’’

On CMS, type ‘‘document’’ first and then, in the command space opposite ‘‘prfonts x8700’’, type ‘‘87set’’.

On GP UNIX type:

```
s8700 /usr/doc/utcs/prfonts.x8700
```

Changes have not yet been made to the Univers font. Improved italics should be available for it in the next few months, but no plans have been made to add mathematics capabilities.

Users interested in more information about the font changes should contact Advising Services at 978-HELP or the Imaging/Humanities Support Group at 978-4548.

Patricia Hood

Enhancements to the Micro Laser Printing Service

Many UTCS customers are currently using the Micro Laser Printing Service to get high quality printed output at low cost. The service allows microcomputer users to enter and format their text using their normal word processing package and then transfer the text to the Xerox 8700 Laser Printer for printing.

Most word processing packages produce underlined text in place of italics, but some of our customers requested a method of getting true italics through the Micro Laser Printing Service. In response, we have made some enhancements to the service, and italics are now available.

If you are interested in italics printing or if you would like information about the Micro Laser Printing Service in general, please contact Pat Hood at 978-4548.

Terry Jones

SCRIPT Change

Since the inception of the CMS service, WSCRIPT (Waterloo SCRIPT) and SCRIPT (IBM DCF) have both been available on CMS, WSCRIPT as a Class B product and SCRIPT as an unofficial online product. The availability of both products has caused confusion between the WSCRIPT and the SCRIPT commands. Because of the resulting problems for some users, SCRIPT (IBM DCF) will be removed from the CMS system. WSCRIPT will continue to be a Class B product.

If you are currently using WSCRIPT, this change will not affect you. However, if you have been using SCRIPT, please contact the Imaging/ Humanities Support Group at 978-4548 as soon as possible.

Additional notes:

1. References to SCRIPT in the *CMS Primer* should be changed to "WSCRIPT". The exercises given in the *Primer* will work with WSCRIPT.
2. The version of SCRIPT being discontinued is the outdated Version 2, which differs substantially from the newer Version 3.

Patricia Hood

New MAXSTOR Command on CMS

One of the features of CMS is the ability of the user to change the memory size of his/her Virtual Machine. Until now, the maximum amount of storage available to you had to be set by the UTCS Accounting Office, and you could vary your memory up to this maximum, depending on your needs.

The new MAXSTOR command allows you to change the maximum allowable storage (all the way up to 16 megabytes of memory) from your terminal. This change remains in effect until you change it again. Most users require 3 megabytes of memory or less (for example, 2 megabytes for most FORTRAN applications, and 3 megabytes for some SAS applications), but some large programs or files may require more.

continued...

MAXSTOR continued

Note: The maximum size your Virtual Machine attains at any time in a month determines the storage charges for all of that month. Even if you increase the size on the last day of the month, you will be charged for the increased size **for the entire month.**

More information on the MAXSTOR command can be obtained by entering HELP MAXSTOR on CMS. If you have questions about how much memory you require, or about memory charges, please contact the Advising Services at 978-HELP.

Paul Shindman

Toronto Turing Version 2.0 Available Now

The Computer Systems Research Institute (CSRI) here at U of T has completed and installed the VM/CMS version of the Toronto Turing Compiler. Turing is the teaching language for undergraduate computer courses in the Faculty of Arts and Science and in the Faculty of Applied Science and Engineering.

Turing combines the simplicity of BASIC-like languages with the power of a Pascal-style language. In addition to all of Pascal's features, Turing adds dynamic arrays, modules, enumerated types, convenient string handling and I/O, and a complete set of built-in mathematical functions. The Turing programming language was designed for writing verifiable programs. This power and versatility is provided without making the programmer add excessive syntactic details. For example, a program to print a message would take at least four lines in Pascal and require one well placed semicolon and one properly placed period. The same program written in Turing is a single line without confusing punctuation:

```
put ‘‘Hello’’
```

The VM/CMS version of the Toronto Turing Compiler is 100% compatible with the versions running on the VAXs, SUNs, and personal computers (running MS-DOS) on campus. The version for VM/CMS is a Class C product at UTCS, and there is no UTCS advising available for it. However, all versions are supported by CSRI.

A textbook (*An Introduction to Computer Science Using the Turing Programming Language,* by R.C. Holt and J.N.P. Hume) and the PC version of Turing are available from the University of Toronto Bookstore. Further information on implementations of the Turing Compiler for other machines is available from the Computer Systems Research Institute at 978-6985.

Steve Perelgut

Language Processor Upgrade

Effective January 13, 1986, UTCS performed a major processor upgrade on both the VM/CMS and MVS systems. At that time VS FORTRAN Release 4.1 was introduced on both systems as the ‘‘new’’ or ‘‘test’’ VS FORTRAN compiler. The current VS FORTRAN 3.1 compilers in production under VM/CMS and MVS will not be touched. The VS FORTRAN 4.1 compiler has a new option, IL, which allows the user to request that all codes needed for calculations for adjustably dimensioned arrays be put inline. If the user performs such calculations with this option, execution time will improve.

In MVS, PL/I Release 5.0 will be introduced for user testing. (There is no PL/I

continued...

Language Processor continued

Release 5.0 for VM/CMS.) Because this release of the compiler is designed for Extended Architecture usage, something not currently supported at UTCS, there are no language or feature changes for the user. However, PL/I users are urged to try this processor out with their programs and report any problems immediately to 978-HELP, since this will eventually become the supported IBM PL/I processor.

If you have any questions concerning these changes, contact Advising Services at 978-HELP.

Herb Kugel

Mainframe File Transfer Facility

The Mainframe File Transfer Facility was introduced in 1984 to allow microcomputer users to upload files to a UTCS mainframe. Long since superseded by the File Transfer Service, it has been almost idle for the past year and will therefore be discontinued on April 1.

The File Transfer Service is more versatile since it allows the transfer of files in both directions and has a much better user interface. In addition, it uses the Kermit protocol for error checking to ensure data integrity.

If you have any difficulties with file transfers between micros and mainframes, please call the Microcomputer Support Group at 978-8701.

Philip Murton

UTCS Noncredit Short Courses

UTCS offers a number of short, noncredit courses on the use of various products and services that we support. These courses are available to students, faculty and staff of the University of Toronto, as well as to other users of our systems.

Complete course descriptions for all noncredit courses offered at UTCS are available at the Information Office, Engineering Annex, Room 206, and at the Accounting Services Office, McLennan Labs, Room 337.

Due to the limited seating capacity in the Education Facility, and the number of terminals available for our hands-on courses, registration is required for short courses.

Please note that we reserve the right to cancel courses, if registration is too low.

Anyone interested in taking any of these courses must register in person with:

Education Coordinator
Engineering Annex, Room 207
978-4565

A nonrefundable Administration Fee of $10 per course is due at the time of registration. It may be paid by cash, cheque or on a Customer Account Number (CAN).

A UTCS computer account *must* be used for the duration of a hands-on course. In addition to the Administration Fee, the CAN holder is responsible for normal computer charges incurred during a hands-on course.

(Anyone interested in credit courses should contact the Department of Computer Science at 978-6360.)

continued...

UTCS Short Courses continued

The following courses are scheduled:

FORT/CMS101 - Introduction to CMS for FORTRAN Users
Date: February 3-7, 1986
Time: 9:30-12:30 noon

JCL101 - IBM Job Control Language for Beginners
Date: February 10-14, 1986
Time: 2:00-3:00 p.m.

TXT/CMS101 - XEDIT and SCRIBE on CMS
Date: February 17-28, 1986
Time: 9:30 - 11:30 a.m.

Irene Rosiecki

Personnel Changes

Ian Darwin, a 14-year UTCS veteran well known for his expertise on the UNIX system, left us in January for a position in industry.

Doug Carson, formerly a Systems Engineer at Carrier Canada, has joined the Communications and Technical Support Group as Communications Coordinator.

Andrzej Pindor, formerly a Research Associate in the Physics Department, has accepted an applications support position in the Statistical and Numerical Analysis Computing (SNAC) Group.

William Cockburn has joined us as a new Computer Operator I, and **Clement Ferdinand** has been promoted to a Computer Operator II.

Change Committee

Changes to the IBM Academic MVS Machine Services

1. The maximum number of output lines in Class A was increased from 15000 to 30000 on November 13, 1985.
2. Release 5.0 PL/I Optimizer was made available for internal testing on November 21.
3. A minimum CPU, I/O, and tape mount charge was introduced for Class E on December 3.

Changes to IBM VM Machine Services

1. Charging for the Virtual Memory Account Charge commenced on October 31.
2. Charging for usage of NetNorth facilities commenced on November 13.
3. Waterloo C Version 1.2 was installed as NEW on November 7.
4. In SCRIBE, improvements on math fonts, larger sigma, integral sign, brackets and others were made on November 12.
5. On November 12, the Series/1 mapping was corrected so that the backslash key generates EBCDIC Back.
6. The DISKSIZE Exec was introduced on November 25 to allow users to change the size of their CMS disks.
7. SAS 5.08 was installed on CMS and announced for user test on December 5.
8. The MAXSTOR Exec was made available to users on December 2.
9. Waterloo SCRIPT 85.1 was installed on CMS as NEW on December 16.
10. Turing was installed under VM/CMS on December 12.

Changes to Other Systems and Services

1. Micro Laser Printing Service was introduced on November 4.
2. Patches supplied by Xerox were applied to the 8700 laser printer on November 22.

Beverly Scarborough

Documents at UTCS

All vendor-produced documentation may be ordered through the UTCS Information Office, Room 206, Engineering Annex. UTCS documents and selected vendor documents are also stocked there for purchase. Whenever feasible, documents are made available online, and users are encouraged to print their own copies. On the MVS and VM machines, special commands have been provided for this purpose.

To print online documents on:

IBM MVS	IBM VM/CMS	GP UNIX
WYLBUR users type "do document?" TSO users type "help document" APL users type ")LOAD 1 UTCSGUIDE<CR>HELP"	type "help document"	use *ipr* command

See examples at the end of next page.

UTCS Documents in hardcopy

New:

Previously announced:

Academic's Guide to Microcomputer Systems
Character Sets for Highspeed Printing
UTCS GUIDE TO PRODUCTS AND SERVICES: Introduction
UTCS GUIDE TO PRODUCTS AND SERVICES: Basics
UTCS GUIDE TO PRODUCTS AND SERVICES: Accounting
UTCS Catalogue: Access, Part 1
UTCS Catalogue: Access, Part 2
UTCS Catalogue: IBM MVS Utilities
UTCS Catalogue: Numerical Products
UTCS Catalogue: Statistics Products
UTCS Catalogue: Storage
UTCS Catalogue: Text Products
UTCS Guide to Census Tapes
UTCS Guide to File Transfer Service
UTCS Guide to KERMIT
UTCS Guide to Mainframe File Transfer Facility
UTCS Guide to Text Processing on GP UNIX

UTCS Documents online	MVS MANUAL	CMS LISTING	GP UNIX	Forms Code
New:				
Previously announced:				
UTCS GUIDE TO PRODUCTS AND SERVICES:				
Basics	BASICS	BASICS	/usr/doc/utcs/basics	*
UTCS Catalogue: Access, Part 1	ACCESS1		/usr/doc/utcs/access1	*
UTCS Catalogue: Access, Part 2	ACCESS2		/usr/doc/utcs/access2	*
UTCS Catalogue: IBM MVS Utilities	MVSUTIL	MVSUTIL		*
Product-Function List	UTILLIST	UTILLIST		BXQD
UTCS Catalogue: Numerical Products	NUMCAT	NUMCAT		*
Product-Function List	NUMLIST	NUMLIST		BXQD
UTCS Catalogue: Statistics Products	STATCAT	STATCAT		*
Product-Function List	STATLIST	STATLIST		BXQD
UTCS Catalogue: Text Products	TEXTCAT	TEXTCAT	/usr/doc/utcs/textcat	*
UTCS Guide to APL	APLGD			*
UTCS Guide to APLXFR	APLXFR			*
UTCS Guide to BMDP	BMDP	BMDP		*
UTCS Guide to Census Tapes	CENSUS	CENSUS	/usr/doc/utcs/census	*
UTCS Guide to File Transfer Service	FTS			*
UTCS Guide to GP UNIX			/usr/doc/utcs/gpunix	*
UTCS Guide to GPJS	GPJSX	GPJSX	/usr/doc/utcs/gpjs	*
UTCS Guide to Highspeed Printing	PRINT	PRINT	/usr/doc/utcs/print	*
UTCS Guide to IBM MVS Online Storage	IBMDISK	IBMDISK		*
UTCS Guide to KERMIT	KERMIT	KERMIT	/usr/doc/utcs/kermit	*
UTCS Guide to Mainframe File Transfer Facility	MFTF			*
UTCS Guide to Micro Laser Printing	MICRLASR	MICRLASR		*
UTCS Guide to SAS	SAS	SAS		*
UTCS Guide to SCRIBE		SCRIBE	/usr/doc/utcs/scribeguide	*
(For printing instructions, see page 1 of document)				

**Recommended forms code for the 8700 is YXLE unless otherwise stated.*

UTCS Documents online	**MVS MANUAL**	**CMS LISTING**	**GP UNIX**	Forms Code
UTCS Guide to Series/1 Terminal Use	SERIES	SERIES		*
3270 Emulation:				
UTCS Guide to Cybernex APL100				
and Volker Craig VC404	CYBER	CYBER		*
DM1520	DM1520	DM1520		*
Hardcopy Terminal	HARDCOPY	HARDCOPY		*
IBM 3101	IBM3101	IBM3101		*
IBM PC KERMIT	PCKERMIT	PCKERMIT		*
SOROC IQ	SOROC	SOROC		*
VT52	VT52	VT52		*
VT100	VT100	VT100		*
UTCS Guide to SPSS	SPSS	SPSS		*
UTCS Guide to SUBUTILS	SUBUTILS	SUBUTILS		*
UTCS Guide to Text Processing on GP UNIX			/usr/doc/utcs/text	*
UTCS Guide to TFW.MAK in SCRIBE		TFWMAK	/usr/doc/utcs/tfwguide	*
UTCS Guide to TSO	TSOGD			*
UTCS Guide to UTDSUTIL	UTDSUTIL	UTDSUTIL		*
UTCS Guide to VM/CMS	CMSGD	CMSGD		*
UTCS Guide to WYLBUR	WYLINTRO			*
UTCS WYLBUR Tutorial	WYLTUTOR			*
Other Documentation online:				
KERMIT Protocol Manual	KERMITPM	KERMITPM		YXOE
KERMIT User Guide	KERMITUG	KERMITUG		YXOF
Waterloo SCRIPT				
Reference Manual	WSCRPTRF	WSCRPTRF		YXLC
User's Guide	WSCRPTUG	WSCRPTUG		YXLC
GML USER'S Guide	GMLUG	GMLUG		YXLC

In these examples, the document to be printed is the UTCS Guide to Census Tapes (MANUAL/LISTING=CENSUS). <CR> means carriage return.

TSO: document census forms(yxle) <CR>

WYLBUR: do document <CR> and respond to the prompts.

CMS: document <CR> <CR>
laser census listing (forms yxle <CR>

GP UNIX: nohup ipr -8p -fyxle /usr/doc/utcs/census & <CR>

* *Recommended forms code for the 8700 is YXLE unless otherwise stated.*

Recent Acquisitions in the Computer Library

ACM SIGACT-SIGMOD Symposium on
Principles of Database Systems. 4th, 1985.
Proceedings.
New York, ACM, 1985.

ACM-SIGMOD International Conference
on Management of Data,
Austin, Texas, 1985.
Proceedings.

Advances in Computers.
Volume 24, 1985.

Advances in Information Systems Science.
Volume 9, 1985.

Annual Review of Information Science and
Technology.
Volume 20, 1985.

Bork, Alfred.
Personal computers for education.
New York, Harper & Row, 1985.

Bramer, M.A., ed.
Research and development in expert systems.
Cambridge, University Press, 1985.

Chou, Wushow, ed.
Computer communications, (V.2: Systems
and applications).
Englewood Cliffs, N.J., Prentice-Hall, 1985.

Clocksin, William F.
Programming in Prolog, by W.F. Clocksin
and C.S. Mellish. 2d ed.
Berlin, Springer-Verlag, 1984.

Dekker, Kees.
Stability of Runge-Kutta methods for stiff
nonlinear differential equations,
by K. Dekker and J.G. Verwer.
Amsterdam, North-Holland, 1984.

Hand, D.J.
Artificial intelligence and psychiatry.
Cambridge, University Press, 1985.

Longo, Giuseppe, ed.
Multi-user communication systems.
Vienna, Springer-Verlag, 1981.
(CISM courses and lectures, no. 265)

National Computer Conference.
Proceedings: Volume 54, 1985.

Peterson's Guides, Inc.
Peterson's guide to engineering science
and computer jobs 1986, ed. by C. Billy.
Princeton, N.J., 1985.

Stibic, Vladimir.
Personal documentation for professionals:
means and methods.
Amsterdam, North-Holland, 1980.

Turner, Ray.
Software engineering methodology.
Reston, VA., Reston Pub. Co., 1984.

United Nations Centre on Transnational
Corporations.
Transborder data flows: access to the
international on-line data-base market.
Amsterdam, North-Holland, 1983.

Vertut, Jean.
Teleoperations and robotics: evolution and
development, by J. Vertut and P. Coiffet.
Englewood Cliffs, N.J., Prentice-Hall, 1986.

Stepnanie Johnston

New Journals Received in the Computer Library

Applied numerical mathematics.
Volume 1, number 1, January 1985 -

Journal of logic programming.
Volume 1, number 1, June 1984 -

Stephanie Johnston

Technical Reports Recently Received in the Computer Library

Carnegie-Mellon University

Appel, Andrew W.	Compile-time evaluation and code generation for semantics-directed compilers. 185 p., #85-147.
Wing, Jeannete M.	Geometric reasoning: a new paradigm for processing geometric information. 22 p., #85-144.

University of Illinois

Grass, J.E. and Campbell, R.H.	Mediators: a synchronization mechanism. 23 p., #1230.
Kaplan, Simon Mark.	Specification and verification of context conditions for programming languages. 280 p., #1232.

Stanford University

Ginsberg, Matthew L.	Decision procedures. 22 p., #1064.
Keller, Arthur M., ed.	Computer science comprehensive examinations 1981/82-1984/85. 294 p., #1062.
Smith, David F., et al.	Controlling recursive inference. 56 p., #1063.
Talcott, Carolyn L.	The essence of rum: a theory of the intensional and extensional aspects of Lisp-type computation. 237 p., #1060.

Wang Institute

Ardis, Mark A., et al.	An assessment of eight programming environments. 33 p., TR-85-16.

continued...

Computer Library continued

Fairley, Richard E.	The role of academe in software engineering education. 19 p. TR-85-19.
Velasco, Flavio R.D.	A formal characterization of some aspects of the JSD specifications. 14 p., TR-85-18.

Yale University

Johnson, William Lewis	Intention-based diagnosis of errors in novice programs. 291 p., #395.
Nicholau, Alexandru	Parallelism, memory anti-aliasing and correctness for trance-scheduling compilers. 161 p., #374.
Schank, Roger C.	Questions and thought. 36 p., #385.

Stephanie Johnston

Consulting and Enquiries

Applications Support & Advising Supervisor	Alex Nishri	MP257	7109
External Marketing Consultant	Ihor Prociuk	MP350	6875
Erindale College	Joe Lim	2035	828-5311
Scarborough College	William Barek	S626	284-3173
General Enquiries	Dale Wright	EA206	4990
Account & Access Code Enquiries (U of T)	Agatha Stevens	MP337	8703
Account & Access Code Enquiries (External)	Sylvia May	MP337	7148
Tape Library (Academic Services)	Rosa Ciddio	MP368	7319
Tape Library (Administrative Services)	Miranda Fong	MP368	6693
Terminal Rentals	tba	SF4306	3787
U of T Computer Library	Stephanie Johnston	EA206	2987

Central Advising Office (Appointments)	HELP	300 Baud Interactive Services	6200
Central Advising Office (Phone-in)	HELP	1200 Baud Interactive Services	3959
Microcomputer Support Group(MSG)	8701	Datapac	4320, 0056
Numerical/Statistical Advising(SNAC)	STAT	Telenet	0302043200056
System Status Enquiries (GP UNIX)	4318	Tymnet	<backspace> DPAC;302043200056
System Status Enquiries (IBM)	7393		

UTCS Directory

Director	Dr. Warren Jackson	MP350	8948
Associate Director	Eugene Siciunas	MP350	5058
Managers:			
Communications & Technical Support	Norman Housley	SF4306	4967
Internal Systems & Administration	Ron Vander Kraats	MP350	4428
Operations	Dr. Bob Chambers	MP350	7092
Systems	Bill Lauriston	MP331	3579
User Interface	Don Gibson	MP350	7331

Committees on Computing

UTCS Board	Chairman	Prof. D.M. Nowlan	4984
Natural Language Processing Steering Committee	Chairman	Prof. I. Lancashire	828-5273
UTCS Users' Committee	Chairman	Prof. J.T. Stevenson	6930
	Secretary	Ms J. Barteski	8204

UTCS Terminal and Advising Sites

Names and Locations

- **Central Advising Office (CAO), 978-HELP**
- **Education Facility (Educ)**, McLennan Labs, 255 Huron St., Room 221
- **Engineering Annex (EA, CDF)**,11 King's College Road, Rooms 103, 104, 107, 107B, 201, 203.
- **Erindale College (Erin), 828-5339,** Mississauga Road, Erindale Campus, Rooms 2005, 2039, 2045
- **Robarts,** Robarts Library, 130 St. George St., Room 1061A
- **Scarborough College (Scar), 284-3122,** Military Trail, Scarborough Campus, Rooms S624, S625, S627, S628, S628A
- **Sidney Smith (Sidney)**, 100 St. George St., Rooms 1071, 1073, 2105
- **St.Michael's College,** 121 St. Joseph St., Room 107
- **Trinity College,** 6 Hoskins Ave., Room 024
- **Victoria University**, 73 Queens Park Cres., Room 005.

Sites		**Hours of Access**			**Restrictions***	**Advising**
	Mon-Thurs	**Fri**	**Sat**	**Sun**		
CAO	10:00-18:00	10:00-18:00	closed	closed	Research	978-HELP
CDF	24 hrs	24 hrs	24 hrs	24 hrs	Undergrads	No
EA	24 hrs	24 hrs	24 hrs	24 hrs	None	978-HELP for Research
Educ	24 hrs†	24 hrs†	24 hrs†	24 hrs†	Research**	978-HELP
(outer)	24 hrs†	24 hrs†	24 hrs†	24 hrs†	Research	978-HELP
Erin (2039)☐	9:00-17:00	9:00-17:00	12:00-16:00	12:00-16:00	Research	Rm 2005
(2045)	24 hrs	24 hrs	24 hrs	24 hrs	Undergrads	Rm 2005
Robarts	8:30-24:00	8:30-24:00	9:00-17:00	13:00-22:00	None	978-HELP for Research
Scar	9:00-24:00	9:00-24:00	10:00-17:00	closed	Research	Rm S626
					Undergrads	Rm S626-A
Sidney	7:00-24:00	7:00-24:00	7:00-24:00	7:00-24:00	None	978-HELP for Research
St.Michael's	24 hrs	24 hrs	24 hrs	24 hrs	None	Arranged by College
Trinity	8:00-22:00	8:00-22:00	8:00-22:00	8:00-22:00	None	Arranged by College
Victoria	8:30-23:00	8:30-23:00	closed	closed	None	Arranged by College

* Research includes graduates, faculty, staff. ** May be unavailable due to UTCS courses. ☐ key access available.
† Building open Mon.-Thurs. 7:00 - 22:00, Fri. 7:00 - 17:00. Building closed Sat. & Sun.

Advising Hours

CAO	Monday through Friday, 10:00 - 18:00
Scar	Monday through Friday, 09:00 - 17:00
Erin	Mon. 09:00-17:00, Tues.-Thurs. 09:00-20:00, Fri. 09:00-17:00

Services Available	**Keypunch**	**PACX**	**Printers**	**Network Terminal Server**	**DCS Micros**
CDF	N	N	Y	N	N
EA	Y	N	Y	Y	N
Educ	N	Y	N	N	N
Erin	N	Y	Y	Y	N
Robarts	N	Y	Y	N	Y
Scar	N	Y	Y	Y	N
Sidney	N	N	Y	Y	Y
St.Michael's	N	Y	Y	N	Y
Trinity	N	N	Y	N	Y
Victoria	N	Y	Y	N	Y

(Y=yes, N=no)

UTCS Services

The principle mandate of UTCS is to plan, implement, and operate computer facilities and "common-carrier" networks, and to plan and support divisional, departmental or project computer facilities as requested.

UTCS Centrally Owned and Managed

Systems

IBM MVS

- TSO, WYLBUR,APL, Batch
- 4381-R03 processor, 32 megabytes of memory
- MVS operating system

IBM VM/CMS

- provides General Purpose Timesharing; access to NetNorth, BITNET, and EARN networks
- 4381-P02 processor, 16 megabytes of memory
- CP operating system, VM/SP Release 3
  CMS timesharing system, VM/SP Release 3
  RSCS spooling system, Release3

GP UNIX

- provides General Purpose Timesharing using UNIX
- VAX-11/750, 5 megabytes of memory
- typesetting hardware (CAT/8)
- offers USENET "news" and electronic mail to most uucp sites

Services

Communications & Technical Support
Primary Phones: 978-3787, 978-4967

- Communications Group provides communications systems, terminals, modems, data channels: consulting and installation.
- Field Service Group installs and maintains communications and computer systems on a contract basis or on a cost-per-call basis.
- provides consulting on computer systems technology and installs computer systems
- provides access between the IBM systems and machines using UNIX, VMS and other operating systems. Ethernet and Pronet technologies are used over various transmission media including optical fibre. More basic communications techniques are also used for moderate speed links.
- provides access to NetNorth (BITNET), the North American Universities Network; and USENET, the UNIX networking fraternity
- will provide a communications solution to department needs on a contractual basis.

User Interface Group
Primary Phone: 978-HELP

- provides advising, consulting and documentation on:
  - command languages
    including CMS, TSO, WYLBUR, JCL and UNIX
  - high level languages
    including FORTRAN, APL and PL/I
  - packages and libraries
    including SAS, SPSS-X, BMDP, IMSL and NAg
  - editors and formatters
    including XEDIT, TSO, WYLBUR, ed, SCRIBE, nroff/troff
- installs and maintains application packages
- provides courses on the more popular services
- provides general micro support
  - selection consulting for hardware and software
  - Micro Lab for evaluation of hardware and software
  - advice on University discounts
  - media conversion and data transfer
  - operates UTCS Microcomputer Bulletin Board System

Facilities Managed by UTCS

Administrative Computing

- provides administrative IMS/VS,DB/DC,DB2, Batch and TSO
- 4381-R03 processor, 32 megabytes of memory
- MVS operating system

UNIX SAS (Statistical Analysis Services)

- provides UNIX Statistical Analysis Service (Dept. of Statistics only)
- PDP-11/70, 4 megabytes of memory
- UNIX Seventh Edition

Computer Disciplines Facility/VAX

VAX-11/780, 4 megabytes of memory
VAX-11/750, 4 megabytes of memory
VAX-11/750, 3 megabytes of memory

- provide Computer Science interactive access
- UNIX (Berkeley UNIX 4.2BSD)

Computer Disciplines Facility/PC

- 97 TI Professional Computers connected in a Local Area Network
- provides introductory Computer Science instruction
- MS-DOS with Turing environment

Scarborough College Systems

VAX-11/750, 5 megabytes of memory
VAX-11/750, 5 megabytes of memory

- provides instructional access using UNIX (Berkeley UNIX 4.2BSD)

Erindale College Systems

VAX -11/780, 4 megabytes of memory

- provides instructional access using VMS
- provides research access

VAX-11/750, 5 megabytes of memory

- provides instructional access using UNIX (Berkeley UNIX 4.2BSD)

Private Funding - Alumni Affairs

VAX-11/750, 6 megabytes of memory

- provides database services to the owner departments using VMS

EPAS Facility

- 4361-5 processor, 12 megabytes of memory
- provides general VM/CMS services to the owner departments

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